#### SEDIMENTATION AND EROSION CONTROL NOTES

A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

B. SCIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED FRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

D. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOYED WITHIN 3D DAYS AFTER FINAL SITE STABLIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

E. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS REEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.

F. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSFORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED FFER PROTECTING WATERS OF THE UNITED STATES.

H. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE.

I. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.

#### PROJECT CONSTRUCTION SEQUENCE

- I. INSTALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL ITEMS AS SHOWN A. INSTALL PERMETER SILT FENCE B. INSTALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL BASKETS ON ANY EXISTING OPEN GRATE STRUCTURE WITHIN PROJECT LIMITS.
- 2. CONSTRUCT STORM SEMER MAPROVEMENTS
  A. INSTALL TEMPORARY SOIL EROSION AND SEDMENT
  CONTROL BASKETS AS STORM SEMERS ARE COMPLETED.
  B. INSTALL RIP PAP AT FES OUTFALLS
  C. INSTALL DITCH CHECKS
  D. INSTALL CONCRETE WASHOUT.
- 3. CONSTRUCT ROAD IMPROVEMENTS AS SHOWN

NOTES: 1. DO NOT SCALE DRAWING. 2. REFER TO MANUFACTURER'S PRODUCT SPECIFICA FORDS TO ENSURE QUALITY OF THE PRODUCTS

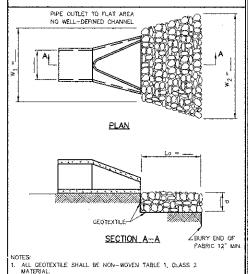
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DROP INLET OR MANHOLE INLET PROTECTION FOR DROP INLETS OR MANHOLES

- L RESTORE PARKWAY AS DETAILED.
- I. MAINTAIN EROSION CONTROL MEASURES UNTIL SITE HAS BEEN COMPLETELY RESTORED.
- R. REMOVE TEMPORARY DITCH CHECKS, SOIL EROSION AND SEDIMENT CONTROL BASKETS, SILT FENGE AND COIR LOGS AFTER COVER CROP IS ESTABLISHED

#### PIPE OUTLET TO FLAT AREA



THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 61 LOGSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED.

IL-610

1. PREPARE SOL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), BICLUDING ANY NECESSARY APPLICATION OF LIME, FERTRIJZER, AND SEED.

2. BEGNA AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPHING, APPLY SEED TO COMPACTED SOL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SCUIPE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WOTH OF THE

COMPACIEU SOIL WITH A NOW OF STATEGYSTAND GROUP ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE RECP'S TO SOIL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED TRROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE DATES STAPLES/STAKES SHOULD BE ALCO THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE DATES STAPLED WITH APPROXIMATELY 2"-5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON

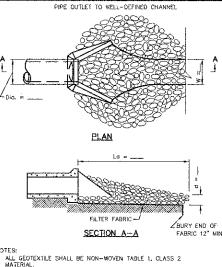
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

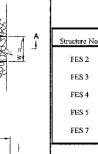
"IN LOOSE SOIL, CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

**EROSION CONTROL BLANKET** 

SLOPE INSTALLATION

#### PIPE OUTLET TO CHANNEL





THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION ST LOOSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED.

IL-611

#### Gewalt Hamilton Associates, Inc. Rip Rap Sizing Calculations

#### Randall Road at Big Timber Road, City of Elgin

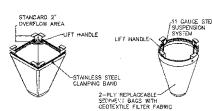
By: BVS Date: 11/16/2011

Structure No.	Туре	Pipe Dia. (inch)	Tailwater	Maximum Pipe Velocity (fps)	Rock Gradation	Blanket Thickness (in)	Apron Length La (feet)		idth (feet) downstream end	Area (sq.yard)
FES 2	Outlet	15	Minimum	5	No. 4	15	16	3.8	17.3	20.0
FES 3	Outlet	12	Minimum	5	No. 3	15	12	3.0	13.0	10.0
FES 4	Outlet	30	Minimum	5	No. 4	15	22	7.5	24,5	40.0
FES 5	Outlet	12	Minimum	5	No. 3	15	10	3.0	11.0	8,0
FES 7	Outlet	12	Minimum	5	No. 3	15	10	3.0	11.0	8.0
	<u> </u>				<u> </u>	· · · · · · · · · · · · · · · · · · ·			Total Area =	86.0

. Rip rap sizing is based on Code 910 of lilinois Urban Mar



TYPICAL



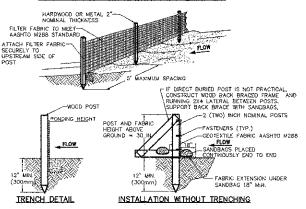
FLAT/RECTANGULAR/ROLLED CURB INLET FILTER

ACCEPTABLE MANUFACTURER'S AS LISTED BELOW 1. INLET & PIPE PROTECTION, INC. Naperville, IL, 60564-847-722-0590 2. MARATHON MATERIALS, INC. Proinfield, IL 60544

MAINTENANCE 1. CLEAN OUT AFTER EVERY RAIN EVENT

Material Property	Test Method	Votue (min. ave.)			
> Inner Filter 9ag Specs		Non-Woven	Woven Mono		
Grab Teaslle	ASTM D 4632	100 lus	200 lbs		
Puncture Strength	ASTM D 4833	65 to	90 lbs		
Trapezoias Tear	ASTM D 4535	45 dps	75 lbs		
UV Resistance	ASTM D 4355	70% at 500 hrs	90%		
App Open Size (AQS)	ASTM C 4751	70 sieve (.212 mm)	40 sieve (.425 mm)		
Promittivity	ASTM C 4491	2.0/aeç.	2.1/eac		
Water Flow Rate	ASTM D 4491	145 gpm/sqft.	145gpm/sqft		
> Polyaster Outer Reinfor	cement Bag Speci	ifications			
Weight	ASYM D 3776	4.55 oz/sqyd +/~15%			
Thickness	L ASTM D 1777	.040 +/005			
> Frame Construction					
A3B Structurg: Steel; 11 Cauge, Zinc Ploted	ASTM A 576	Tensile Strength			

#### INLET FILTER BASKET DETAIL



2. ATTACH AASHTO GEOTEVERE ENTER EARRIC TO EACH POST 2. ATRICH AASHIO GEOTEXIEF METER FARRIC TO EACH POST WITH A MINIMUM OF J(THREE) FASTENERS PER POST AND EXTEND TO THE BOTTOM OF THE TRENCH. ACCEPTABLE FASTENERS INCLUDE STAPLES, ZIP-TIES, OR WIRE TIES.

3. BACKFILL AND COMPACT THE EXCAVATED SPOR MATERIALS

NOTES: 1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

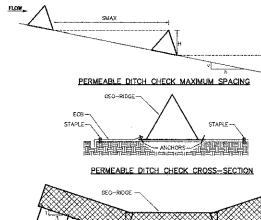
2 INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN MECESSARY, 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.

3. REMOVED SEDMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

4. FABRIC AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ASSHTO STANDARD SPECIFICATION M-288-00.

SILT FENCE INSTALLATION DETAIL





# TYPICAL DITCH CROSS-SECTION

NOTES.

1. THE PERMEABLE DITCH CHECK SHALL BE GEO-RIDGE, OR EQUIVALENT,

2. THE PERMEABLE DITCH CHECK SHALL BE ANCHORED WITH 10° GALVANIZED AROOX SPIKES WITH A 3/8° X 1.5° GALVANIZED WASHER.

3. THE EROSON CONTROL BLANKET (ECOS) SHALL BE A NACHORED WITH 10° GALVANIZED WASHER.

3. THE EROSON CONTROL BLANKET (ECOS) SHALL BE A NACHORED WITH 10° STABILIZED POLYPROPYLENE NETTINGS. THE ECOS SHALL BE C125 AS MANUFACTURED BY NORTH AMERICAN GREEN (NAC), OR EQUIVALENT.

4. THE PERMEABLE DITCH CHECK SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

5. THE PERMEABLE DITCH CHECK SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

5. THE PERMEABLE DITCH CHECK SHALL BE CRANED WHEN SEDIMENT HAS ACCUMULATED HALF THE HEIGHT OF THE DITCH CHECK.

6. THE PERMEABLE DITCH CHECK SHALL BE REMOVED ONLY AFTER SITE HAS ACHIEVED FULL STABILIZATION.

7. THE DEGRADEABLE VERSION SHALL ONLY BE USED ON TOP OF AN EROSION CONTROL BLANKET, TURF REINFORCEMENT MAT OR STABILIZED AREA.

#### GEO-RIDGE PERMEABLE DITCH CHECK

## **COIR ROLL DETAIL**

\* USE 9LB DENSITY 12" DIAMETER, 20' LONG COIR LOG POLYNET FOR STANDARD CIRCULAR DRAINAGE STRUCTURES, PLACE THE COIR LOG AROUND THE STRUCTURE AND JOIN THE BIOS TOCETHER WITH COIR TRIME. USE 2"x2"24" WOODEN STAKES SPACED 3" APART TO HOLD DOWN LOG POLYNET.

DESIGNED - KLB ISER NAME = PAUL SWIATEK REVISED DRAWN REVISED PJS PLOT SCALE = 1" = 0833 CHECKED KLB REVISED PLOT DATE = 3/21/2012 REVISED

STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY, SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED

TRENCHED-IN 3"

MAINTENANCE
1. CLEAN DUT SEDMENT BEHAND LOG WHEN 1 FULL
2. RESCURE LOOSE LOOS
3. REPLACE LOGS AS NEEDED
4. REMOVE WHEN NOT NEEDED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SOIL EROSION AND SEDIMENT CONTROL PLANS BIG TIMBER ROAD STA. 203+50 TO STA. 208+50 SHEET NO. OF SHEETS STA.

SECTION COUNTY 527 08-00369-00-SP KANE 67 CONTRACT #: 63669

### SCALE: 1"=20'